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Our ref.: P16853US00
Christian Abel

Your ref.:

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application serial no.: 10/762,344
Inventor: Bernt Stellander
For: Putter with alignment means
Group No.:
Examiner:
Attorney docket no.: 115943

RESPONSE TO NOTICE TO FILE MISSING PARTS, NOTICE OF INCOMPLETE REPLY
AND
PRELIMINARY AMENDMENT

Sir:

This is in response to the Notice to File Missing Parts dated 11 August, 2004, as well as the Notice of Incomplete Reply dated 11 August 2004, copies of which are enclosed.

Declaration

The Notice to File Missing Parts indicates that a declaration of the inventor has not been filed. A Declaration has in fact been filed on 5 April 2004. A copy of the filed declaration, together with Certificate of Transmission, and receipt from the fax machine from which the declaration was filed, is enclosed herewith.

Missing page from the specification

Both of the above referenced Notices indicate that page 3 was missing from the specification as filed. This is in fact the case, and the applicant hereby elects to accept the as the filing date the date of the original deposit of the application papers as filed, namely 23 January 2004.

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Substitute Specification

Applicant hereby submits a substitute specification in the form of a PRELIMINARY AMENDMENT in which the missing page 3 is supplied. In as much as the information contained in the missing page 3 is simply a portion of the brief summary of the invention, the newly supplied page 3 does not contain any additional information that was not already contained in the specification as originally filed. Support for the now-supplied information can be found in page 4, in the detailed description of the invention, the originally-filed claims, as well as the drawings. The information is thus supported by the original filing date of 23 January, 2004.

It is further believed that the substitute specification corrects the technical defects regarding legibility.

Drawings

A set of drawings is enclosed. Fig 3 is a new drawing believed to correct the problem with the original fig 3 being too dark. The remaining drawings are copies of the originally-filed figures, believed to be free of the artifacts identified in the notice.

Please charge any and all necessary fees during the pendency of this application to deposit account 501898.

Respectfully submitted,
ONSAGERS AS


Christian D. Abel

Reg no. 43,455

Cust. No. 29078

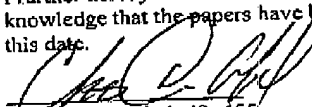
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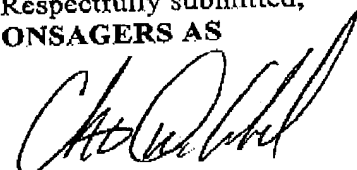
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www.onsagers.no**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**Application serial no.: 10/762,344
Inventor: Bernt Stellander
For: PUTTER WITH ALIGNMENT MEANS
Group No.:
Examiner:
Attorney docket no.: 115943

Sir:

Please find enclosed for filing:

- Declaration of the Inventor
- Power of attorney

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Respectfully submitted,
ONSAGERS AS

Christian D. Abel

Reg no. 43,455

Cust. No. 29078

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I further hereby attest that I have personal
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PTO/SB/01 (08-03)

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Inventor's Signature <i>Bernt Støllander</i>		Date 16.03.04	
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(Page 2 of 2)

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**DECLARATION FOR UTILITY OR
DESIGN
PATENT APPLICATION
(37 CFR 1.63)**☐ Declaration
Submitted
With Initial
Filing

OR

☒ Declaration
Submitted after Initial
Filing (surcharge
(37 CFR 1.16 (e))
required)

Attorney Docket Number	115943
First Named Inventor	Bernt Stellander
COMPLETE IF KNOWN	
Application Number	10/762,344
Filing Date	23 January 2004
Art Unit	
Examiner Name	

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I hereby declare that:

Each inventor's residence, mailing address, and citizenship are as stated below next to their name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

PUTTER WITH ALIGNMENT MEANS

(Title of the Invention)

the specification of which

☐ is attached hereto

OR

☒ was filed on (MM/DD/YYYY)

01/23/2004

as United States Application Number or PCT International

Application Number

10/762,344

and was amended on (MM/DD/YYYY)

(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

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☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application serial no.: 10/762,344
 Inventor: Bernt Stellander
 For: PUTTER WITH ALIGNMENT MEANS
 Group No.:
 Examiner:
 Attorney docket no.: 115943

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Patent Application of
Bernt Stellander
for
PUTTER WITH ALIGNMENT MEANS

5

FIELD OF THE INVENTION

The present invention relates to golf clubs and, more particularly to a putter with an alignment means that provides visual feedback during the setup and the stroke itself.

10

BACKGROUND OF THE INVENTION

A putter is a golf club used on the short-surface of a golf course, called the green. The putter is used to strike the ball along the surface of the green into the hole; a golf shot

15 known as the "putt".

There are two critical phases in executing a proper putt. In order to putt accurately, the player needs to (a) achieve a proper stance and setup and to (b) properly execute the

20 stroke.

The proper stance for putting includes:

- 25 1) The player positioning his/her feet and body parallel to the aiming/putting line. This imaginary straight line goes from the center of the hole, to the center of the ball, on a flat, horizontal surface. On undulating greens, this straight line is aimed to the side of the hole.
- 30 2) Before the stroke is performed, the putter should be positioned towards the back of the ball, so that the face is square to/perpendicular to the aiming/putting line. Then the center line of the putter is in line with the
- 35 aiming/putter line. The center line of the putter is an imaginary line, dividing the putter in two equal halves, from front/face to back.

3) The putter should be placed behind the ball so that the ball is positioned on the center of the putter/face.

4) The players eyes should be positioned parallel to, and perpendicularly above (at an optimal height depending upon how tall the player is, or his particular putting style), the center line of the putter when the player is in position to perform the stroke (set up position).

10 Once the proper stance is achieved, the stroke must be executed. The correct/optimal stroke when using a pendulum-type putter is a "straight back - straight through" movement of the club head. During the stroke the player's head should not move.

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Because of the exacting nature of putting, several efforts have been made to design a putter with an alignment system to help improve putting accuracy. Examples of such putters include U.S. Pat. Nos. 5,720,668; 6,200,227; 6,261,190; and 6,663,496. These patents are representative of alignment systems that assist the player in achieving a proper stance, and include visual means that aid the player in confirming that his/her head is directly above the putter during set up. While these putters and other known putters may be somewhat effective in aiding the player to position himself directly above the ball, none of these putters provide adequate visual feedback during the stroke itself. Nor do they take into consideration the effect of one's dominant eye on the visual feedback. There exists therefore a need for a putter that aids the player in both of these critical phases.

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BRIEF SUMMARY OF THE INVENTION

The present invention is a putter that provides reference markings for achieving a proper stance, as well as providing visual feedback through the user's peripheral vision during the stroke itself. The reference markings of the putter aid the user in positioning his/her head directly over the ball,

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at the proper height, and aid in centering the ball on the striking surface of the putter. The markings further aid the player in keeping the centerline of the putter parallel with the aiming/putting line throughout the stroke.

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The putter according to the invention comprises a putter head having a forward-facing striking surface, a heel, a toe, a top surface and a rearward-facing, elongated tail section. The elongated tail section has vertical side walls, into each of which is machined an elliptical, preferably semicircular, track or groove along the inside surface. The elliptical tracks are spaced from each other at a width slightly less than the diameter of a golf ball, and are machined into the sidewalls at a predetermined angle of incidence such that, when viewed from directly overhead, the tracks will be perceived by the user as two parallel lines, such lines being parallel with and equidistant from the center line of the putter. The top surfaces of the tracks are preferably painted in a contrasting color so as to emphasize the visual perception of the parallel lines.

The elliptical tracks provide an improved means of aiding the user in centering his/her head directly above the ball at setup. If the user's eyes are not directly in line with the plane extending vertically from the centerline, then one of the tracks will increasingly disappear behind its respective sidewall, while the opposite track will appear to become increasingly curved, as the degree of misalignment increases.

The angle of incidence at which the tracks are machined into the sidewalls is predetermined based upon the optimal height of the users' eyes above the lowest point of arc of the elliptical tracks. If the users' eyes are at a lower height, then the perceived parallel lines will become distorted. If

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the users' eyes are higher than intended, then the parallel lines will increasingly disappear behind the sidewalls. The putter can thus be custom calibrated for players of different height, or to the unique putting style of the individual.

5

The top surface of the putter head further comprises a semi-circular marking of predetermined radius and offset that visually aids the user in centering the ball along the striking surface.

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The elliptical tracks of the putter also provide improved visual feed back during the stroke itself. When the user properly executes the putting stroke by moving the putter straight back and straight through (i.e. parallel to the putting/aiming line), the spacing and parallel appearance of the tracks imparts a sensation that can be described as "putting the ball in a tube". If the stroke deviates from the putting/aiming line, however, the user will receive immediate visual feedback. The user's peripheral vision will detect, as during the setup, that one of the tracks disappears while the other becomes increasingly curved. Because visual perception is extremely sensitive to deviations from straight lines and parallel relationships, the user will be able to detect errors in the putting stroke better than with other known putters.

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BRIEF DESCRIPTION OF THE DRAWINGS

FIG 1 is a perspective view of the putter head.

FIG 2 is a top view of the putter head.

FIG 3 is a top view, slightly in perspective, of the putter head.

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FIG 4 is a sectional view of the putter head taken along A-A of FIG 2.

FIG 5 is a sectional view taken along B-B of FIG 2.

- FIG 6 is a graphical illustration of the formula for calculating the angle of incidence of the elliptical tracks, wherein "H" is the height from the eyes to the lowest point of arc, $w/2$ is the distance from the center line to the lowest point of arc, and X is the angle of incidence.
- FIG 7a and 7b are exaggerated illustrations of a track machined into a straight and curved sidewall, respectively
- FIG 8 is a perspective view of an alternate embodiment of the putter head
- FIG 9 is a top view of the putter head from FIG 8, showing the visual effect in the case of misalignment

DETAILED DESCRIPTION OF THE INVENTION

- The present invention is a putter head that improves putting accuracy. The following description is made with reference to a putter designed for a right-handed player wherein a hosel (not shown) will be provided at the appropriate location by one skilled in the art; however the invention may also be adapted for the left handed player by providing for an alternative location of the hosel by one skilled in the art.

- The preferred embodiment shown in FIG 1-5 comprises a forward facing striking surface 10, a toe section 12, a heel section 14 (whereat a hosel will be provided for attachment of a shaft), a top surface 16 and a rearward-projecting tail section 18. As shown in FIG 1, tail section 18 comprises two vertical sidewalls 20, a floor section 22, a rear section 24 and a front wall section 26, said front wall section 26 being essentially the opposite face of striking surface 10. As can be appreciated from FIG 1, sidewalls 20, floor section 22, rear section 24 and front wall section 26 define a hollow cavity hereinafter referred to as targeting box 28. In a preferred embodiment, floor section 22 curves upward toward rear section 24, thus producing a rounded appearance at the

rear of tail section 18 as shown in FIG 4, providing clearance between the rear of tail section 18 and the ground during the follow-through of a putting stroke.

- 5 As shown in FIGs 1-5, an elliptical track 30 is machined into each of sidewalls 20, for example by using a grinding disc of appropriate radius. Tracks 30 are machined into sidewalls 20 at a predetermined angle of incidence "X" relative to the vertical plane extending upwards from the center line of the
10 putter, such center line being shown as A-A in FIG 2. Angle "X" is calculated based upon the optimal height of a user's eyes above the lowest point of arc of elliptical tracks 30. This optimal distance can be individually determined for each player (in the case of a custom putter), or may be based upon
15 accepted norms in the golfing art for players of various heights.

- The formula for calculating angle "X" is graphically represented in FIG 6, wherein "H" is the height from the eyes
20 to the lowest point of arc, $W/2$ is the distance from the center line to the lowest point of arc (half the width of floor section 22), and X is the angle of incidence. According to the laws of right triangles, $\text{TANGENT } X = H/(W/2)$. In a preferred embodiment, the width of floor section 22 is
25 slightly less than the diameter of a golf ball, and more preferably 40 mm. If, for example, the optimal distance for a particular user from the eyes to the lowest point of arc were 1200mm, then, for that preferred embodiment, angle "X" would be 89.045 degrees.

- 30 When tracks 30 are machined at the correct angle of inclination, a user that is positioned at the correct height, with his/her eyes in vertical alignment with center line A-A, will perceive tracks 30 as two parallel lines, as shown in FIG

2. (If tracks 30 were not machined at an angle, then the lowest points of the arcs of the two tracks would appear closer together than the ends of the arcs, due to the eyes being relatively closer to the end points. The tracks would then appear slightly curved.) In order to enhance this visual perception the top surface of tracks 30 can be painted in a color that contrasts with the color of the putter head. In a preferred embodiment, the putter head will have a dark, preferably black color, and tracks 30 will be painted a light color, preferably white. Because tracks 30 are perceived as parallel lines, the tracks provide an optical feedback if user's head is misaligned. FIG 3 demonstrates how tracks 30 will be perceived by a user whose head is misaligned in the direction of heel section 14. As seen, the uppermost track 30 will be perceived by the user as a curved line, and the bottom-most track 30' will effectively "disappear" behind its respective sidewall. This same visual feedback is provided during the putting stroke, wherein it is desirable to keep the putter head parallel with the aiming line. It is well known in the optical arts that the human eye is particularly sensitive to deviations from straight and parallel lines. The tracks will thus provide a much more sensitive aid for the user than previously known devices. The "sensitivity" of the invention can be adjusted further if desired by for example increasing or decreasing the relative height difference between the end points of track 30 and the lowest point of arc (for example by machining tracks 30 with a grinding disc of different radius). An alternate method of increasing the "sensitivity" would be to increase the height of sidewalls 20 at their midpoint, so as to increase the distance from the tops of the sidewalls to the lowest point of arc.

In order for tracks 30 to be perceived as parallel lines, it is preferred that the tracks have a uniform width. In a

- preferred embodiment the width is 1.5mm, however this width can be increased or decreased in order to alter the "sensitivity" of the device. Because tracks 30 are machined into sidewalls 20 at an angle, the width of tracks 30 would not be uniform if sidewalls 20 are perfectly planar. If sidewalls 20 were planar, as depicted in exaggerated illustration 7a, the track at lowest point of the ellipse would have the full width but would increasingly become thinner and thinner towards the end points at the tops of the sidewalls. To compensate for this phenomenon, sidewalls 20 are slightly curved, as depicted in exaggerated illustration 7b. This allows for tracks 30 to be machined into sidewalls 20 at full thickness throughout their length.
- 15 As shown in the figures, the putter head according to the invention further comprises a semicircular indicator 32 engraved or imprinted on top surface 16, at the center line. Indicator 32 provides visual feedback aiding the user to center the striking surface with the ball (not shown). In a preferred embodiment, indicator 32 is white in color, and has a radius between 5.1mm and 5.9mm, and preferably 5.5 mm. Indicator 32 is offset in the forward direction by between 2.1mm and 2.9mm, and preferably 2.5mm. These particular dimensions and color have been shown to create a particularly effective optical illusion when striking surface 10 is positioned adjacent to the ball, whereupon indicator 32 appears to "melt into" the ball and effectively disappear. If the putter head is not correctly aligned, a gap will appear.
- 30 FIGS 8 and 9 show an alternate embodiment of the invention wherein each elliptical track 30 is replaced by two planar, upper tracks 34 and an intermediate, lower planar track 36. The visual feedback from this embodiment is illustrated in FIG

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9, which shows the how the tracks are perceived by a user whose head is misaligned in the direction of heel section 14.

5 In another alternate embodiment (not shown) a curved strip of appropriate material could be placed between sidewalls 20, and resting on tracks 30, so that one solid path/line is visible. The same visual effect is achieved, but now with one solid, wide band, preferably in the same color as the ball. While this invention has been shown and described with respect
10 to specific embodiments thereof, it will be understood by those skilled in the art that various changes in form and detail thereof may be made without departing from the scope of the claims of the invention.

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CLAIMS

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1. A putter head for a golf putter, comprising:

- A forward-facing, planar striking surface;
- a toe section;
- a heel section;

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- a top surface; and

- an elongated, rearward projecting tail section, said tail section comprising reference tracks that, when viewed from above by a user whose eyes are in vertical alignment with the perpendicular centerline bifurcating said striking surface, will appear to the user as two continuous parallel lines that are equidistant from the centerline and that extend perpendicularly to said planar striking surface in the rearward direction, and wherein said tracks, when viewed from above by a user whose eyes are not in vertical alignment with the perpendicular centerline, will not appear as two continuous parallel lines.

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2. The putter head according to claim 1, wherein said reference tracks are spaced apart from each other at a distance approximate to the diameter of a regulation-sized golf ball.

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3. The putter head according to claim 2, wherein said reference tracks are spaced apart from each other at a distance slightly less than the diameter of a regulation-sized golf ball.

4. The putter head according to claim 2 or 3, wherein said tail section comprises two substantially vertical sidewalls, a floor section, a rear section and a front wall section that together define a hollow cavity, and wherein said reference tracks are located along the inside faces of said sidewalls.
5. The putter head according to claim 4, wherein each reference track comprises the upper surface of a portion of its respective sidewall that protrudes in towards the interior of the hollow space, and further wherein said reference tracks are between 0.5mm and 2.0mm in width.
6. The putter head according to claim 5, wherein said reference tracks, when viewed from the side, are elliptical in shape, with the lowest point of arc of the ellipse nearest the floor section.
7. The putter head according to claim 6, wherein the planes defined by said elliptical reference tracks have a predetermined angle of incidence relative to the vertical plane extending up from the centerline, said angle of incidence being a function of the distance between the user's eyes and the lowest point of arc of the tracks.
8. The putter head according to claim 7, wherein the upper surface of said reference tracks has a color that contrasts with the putter head.
9. The putter head according to claim 5, wherein each of said reference tracks is comprised of two straight, substantially horizontal upper portions and an

12

intermediate, straight and substantially horizontal lower portion.

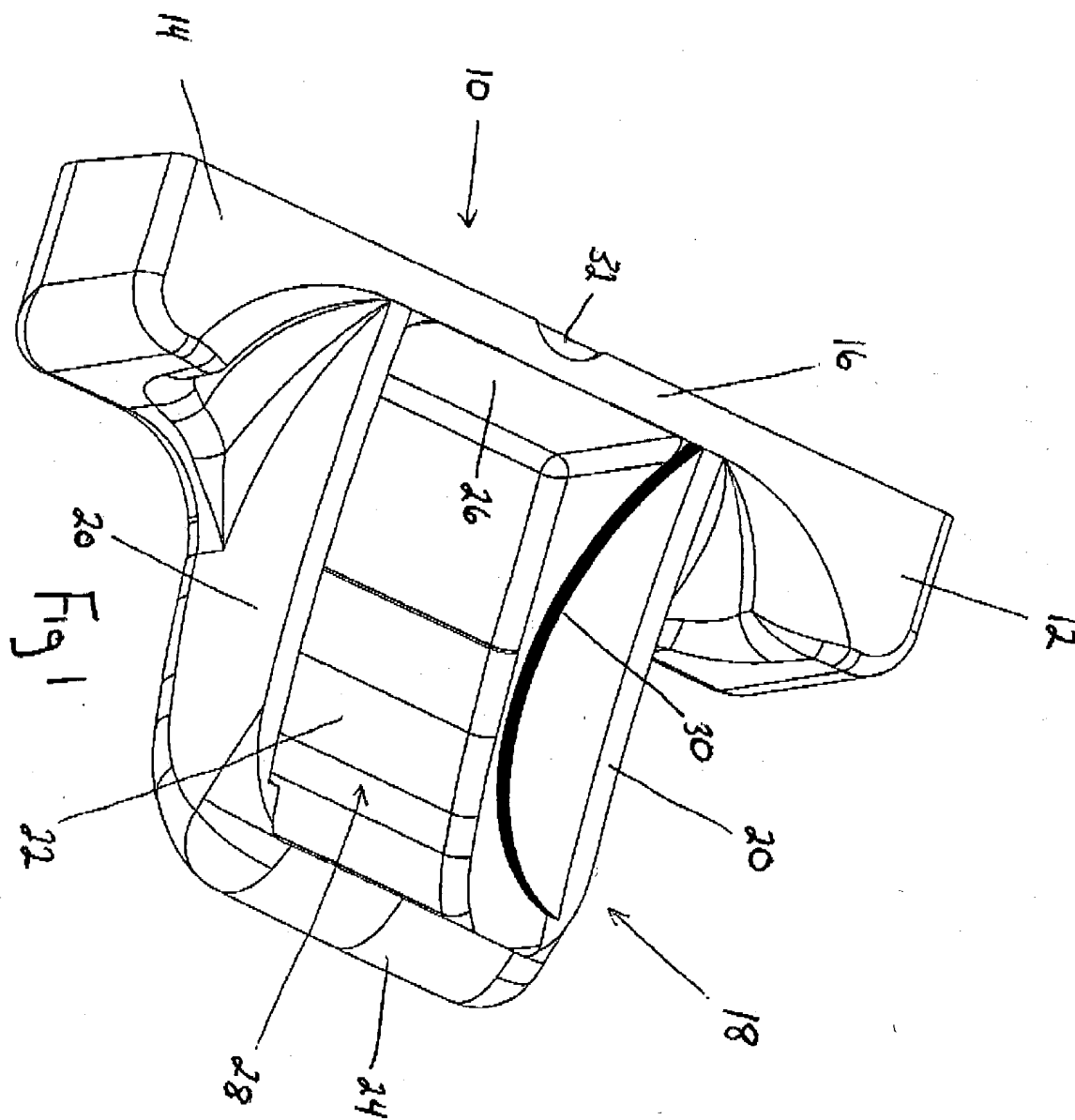
- 5 10. The putter head according to claims 5 or 9, further comprising a semicircular indicator marking of contrasting color arranged on the said top surface of said putter head at the centerline, said indicator marking having a radius of between 5.1mm and 5.9mm and is offset from center in the forward direction by
10 between 2.1mm and 2.9mm.
- 15 11. A putter head comprising a planar striking surface, a toe section, a heel section, a top surface and a semicircular indicator marking arranged on said top surface at the midpoint of said striking surface, wherein said indicator marking has a radius of between 5.1mm and 5.9mm and further wherein said marking is offset from center in the forward direction by between 2.1mm and
20 2.9mm.
- 25 12. The putter head according to claim 11, wherein said indicator marking is white, and where said radius is 5.5mm and wherein said indicator is offset from center by
30 2.5mm.

5 ABSTRACT

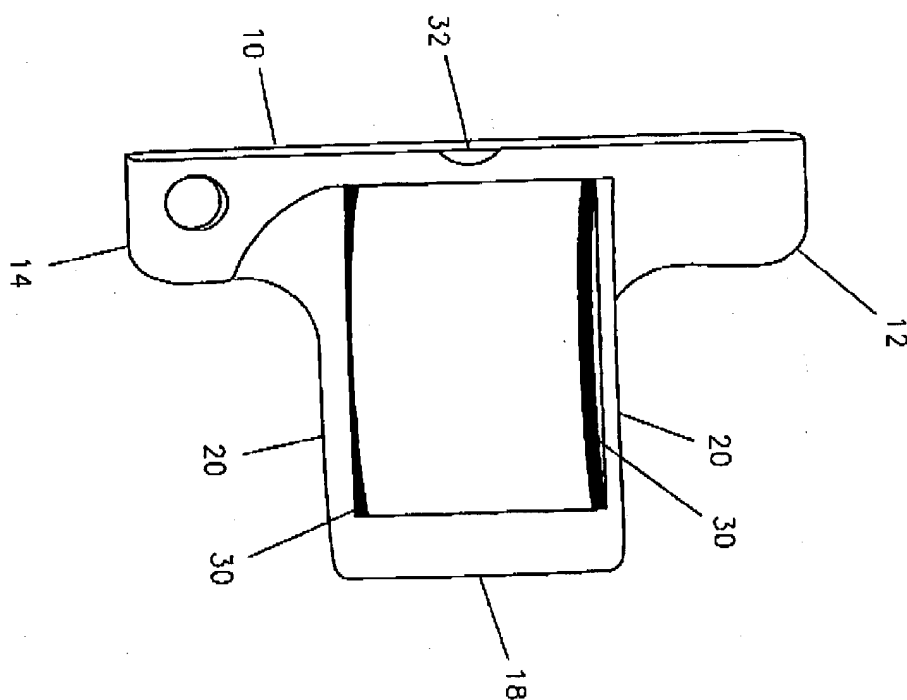
A putter head having a forward-facing striking surface, a heel, a toe, a top surface and a rearward-facing, elongated tail section. The elongated tail section has vertical side walls, into each of which is machined an elliptical track or groove along the inside surface. The elliptical tracks are spaced from each other at a width slightly less than the diameter of a golf ball, and are machined into the sidewalls at a predetermined angle of incidence such that, when viewed from directly overhead, the tracks will be perceived by the user as two parallel lines. If the user's eyes are not directly in line with the plane extending vertically from the centerline, then one of the tracks will increasingly disappear behind its respective sidewall, while the opposite track will appear to become increasingly curved, as the degree of misalignment increases. The putter thus provides a means of alignment that improves putting accuracy.

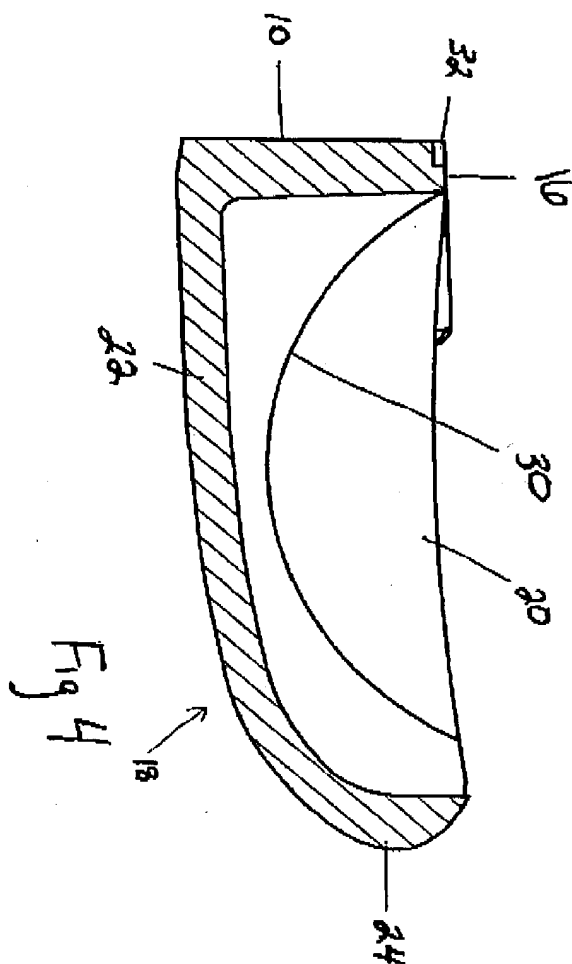
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Replacement Sheet

Fig. 3



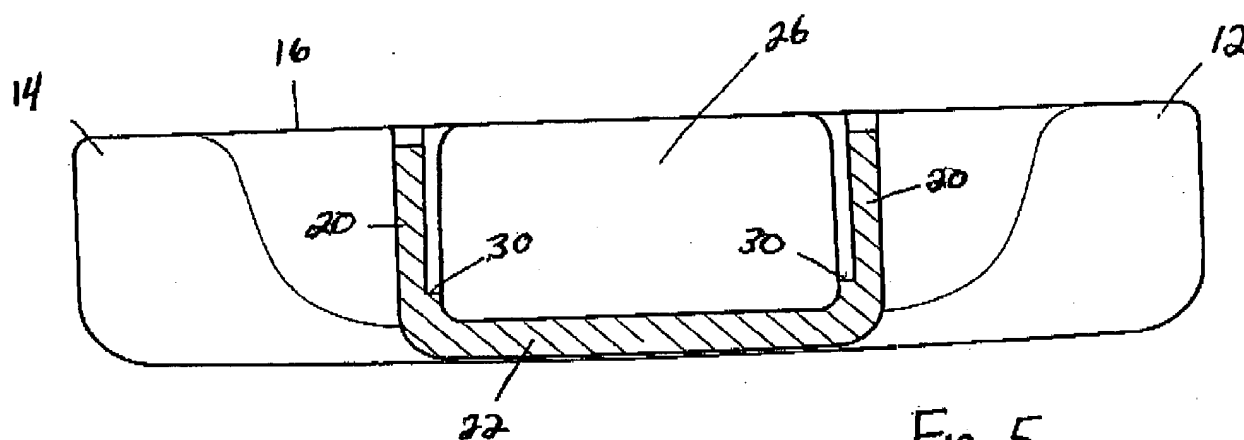


Fig 5

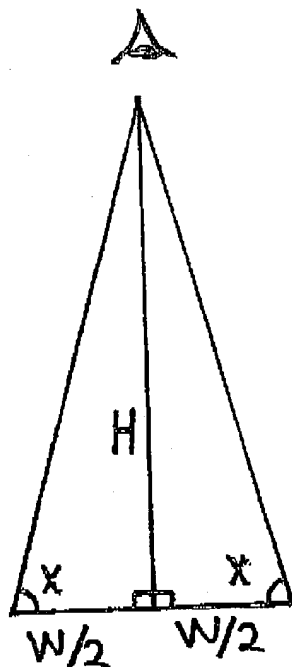


Fig 6

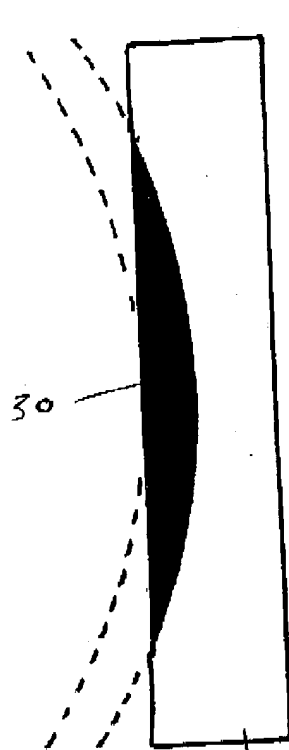
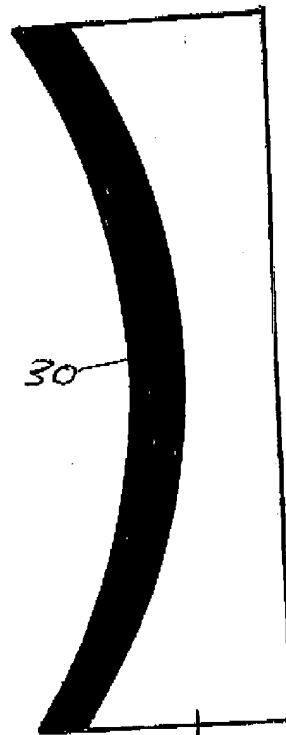


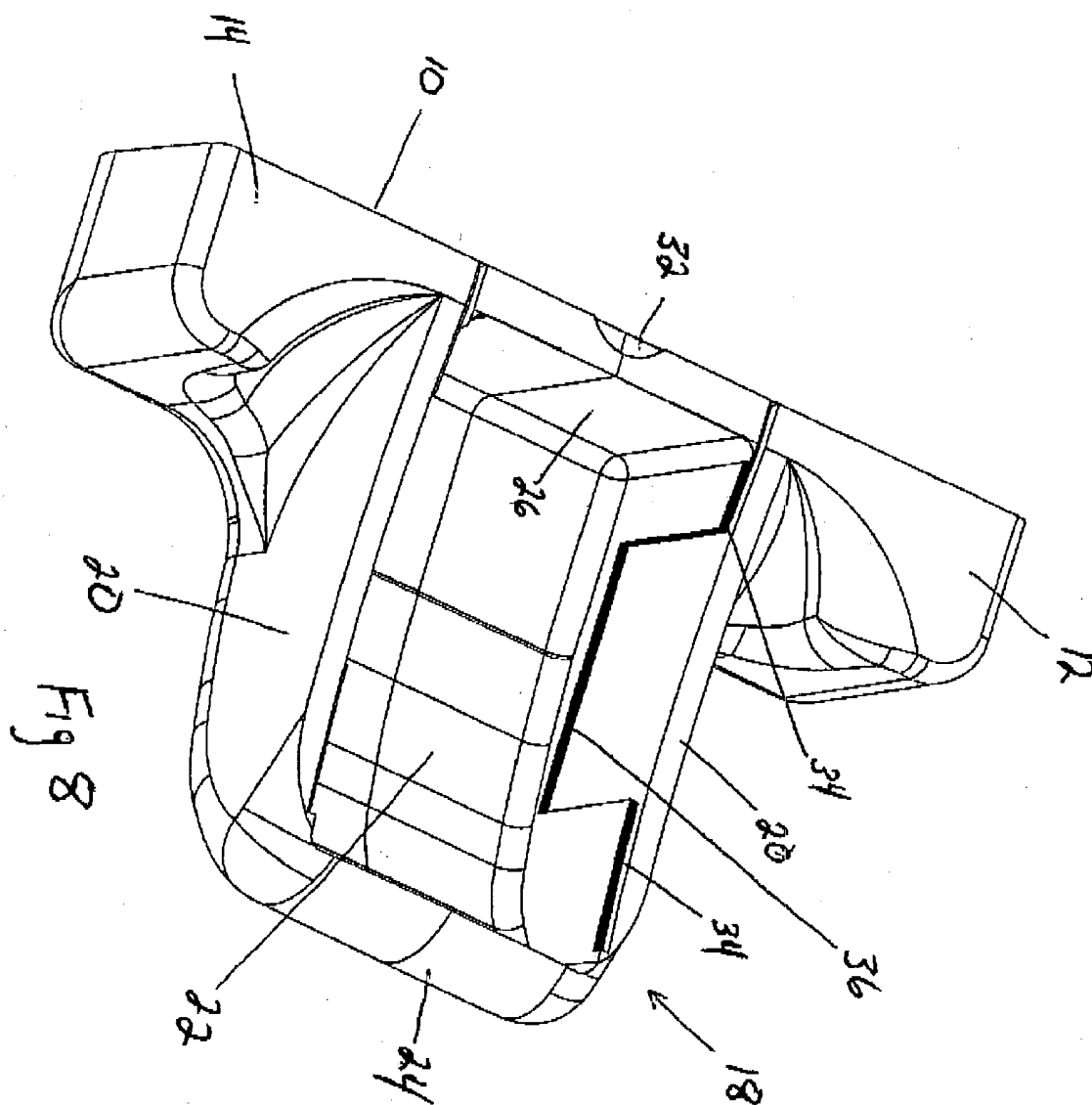
Fig 7a

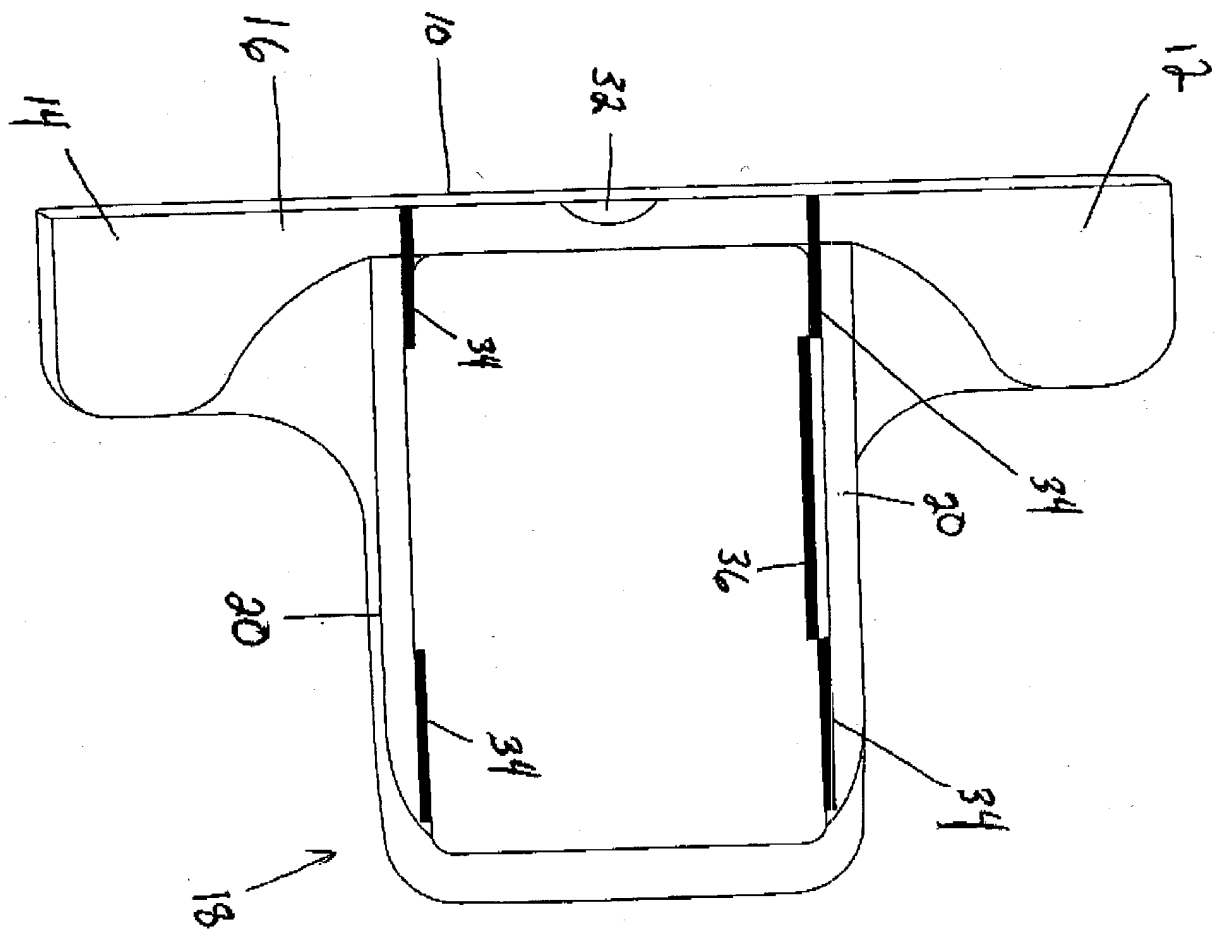
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Fig 7b







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United States Patent and Trademark Office
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www.uspto.gov

APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/762,344	01/23/2004	Bernt Stellander	115943

CONFIRMATION NO. 4919

29078
CHRISTIAN D. ABEL
ONSAGERS AS
POSTBOKS 8963 ST. OLAVS PLASS
NORWAY, N-0130
NORWAY

FORMALITIES LETTER



OC000000013506272

Date Mailed: 08/11/2004

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

Items Required To Avoid Abandonment:

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is missing.
A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.

The application is informal since it does not comply with the regulations for the reason(s) indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- A substitute specification in compliance with 37 CFR 1.52, 1.121(b)(3), and 1.125, is required. The specification, claims, or abstract page(s) submitted is not acceptable and cannot be scanned or properly stored because:
 - Papers must be legibly written either by a typewriter or mechanical printer in permanent ink or its equivalent in portrait orientation on flexible, strong, smooth, non-shiny, durable, and white paper. Application papers must be presented in a form having sufficient clarity and contrast between the paper and the writing thereon to permit the direct reproduction of readily legible copies in any number by use of photographic, electrostatic, photo-offset, and microfilming processes and electronic reproduction by use of digital imaging and optical character recognition. Pages 1, 5, 7-9 & 11 are not in compliance with 37 CFR 1.52(a).
- Replacement drawings in compliance with 37 CFR 1.84 and 37 CFR 1.121 are required. The drawings submitted are not acceptable because:

- The drawings must be reasonably free from erasures and must be free from alterations, overwriting, interlineations, folds, and copy marks. See Figure(s) 1.
- The drawings submitted to the Office are not electronically reproducible. Drawing sheets must be submitted on paper, which is flexible, strong, white, smooth, non-shiny, and durable (see 37 CFR 1.84(e)). See Figure(s) 3 too dark.

The following item(s) appear to have been omitted from the application:

- Page(s) 3 of the specification (description and claims).

I. Should applicant contend that the above-noted omitted item(s) was in fact deposited in the U.S. Patent and Trademark Office (USPTO) with the nonprovisional application papers, a copy of this Notice and a petition (and \$130.00 petition fee (37 CFR 1.17(h))) with evidence of such deposit **must** be filed within **TWO MONTHS** of the date of this Notice. The petition fee will be refunded if it is determined that the item(s) was received by the USPTO.

II. Should applicant desire to supply the omitted item(s) and accept the date that such omitted item(s) was filed in the USPTO as the filing date of the above-identified application, a copy of this Notice, the omitted item(s) (with a supplemental oath or declaration in compliance with 37 CFR 1.63 and 1.64 referring to such items), and a petition under 37 CFR 1.182 (with the \$130.00 petition fee (37 CFR 1.17(h))) requesting the later filing date **must** be filed within **TWO MONTHS** of the date of this Notice.

Applicant is advised that generally the filing fee required for an application is the filing fee in effect on the filing date accorded the application and that payment of the requisite basic filing fee on a date later than the filing date of the application requires payment of a surcharge (37 CFR 1.16(e)). To avoid processing delays and payment of a surcharge, applicant should submit any balance due for the requisite filing fee based on the later filing date being requested when submitting the omitted item(s) and the petition (and petition fee) requesting the later filing date.

III. The failure to file a petition (and petition fee) under the above options (I) or (II) within **TWO MONTHS** of the date of this Notice (37 CFR 1.181(f)) will be treated as a constructive acceptance by the applicant of the application as deposited in the USPTO. **THIS TWO MONTH PERIOD IS NOT EXTENDABLE UNDER 37 CFR 1.136(a) or (b).** In the absence of a timely filed petition in reply to this Notice, the application will maintain a filing date as of the date of deposit of the application papers in the USPTO, and original application papers (i.e., the original disclosure of the invention) will include only those application papers present in the USPTO on the date of deposit.

In the event that applicant elects not to take action pursuant to options (I) or (II) above (thereby constructively electing option (III)), amendment of the specification to renumber the pages consecutively and cancel incomplete sentences caused by any omitted page(s), and/or amendment of the specification to cancel all references to any omitted drawing(s), relabel the drawing figures to be numbered consecutively (if necessary), and correct the references in the specification to the drawing figures to correspond with any relabeled drawing figures, is required. A copy of the drawing figures showing the proposed changes in red ink should accompany with any drawing changes. Such amendment and/or correction to the drawing figures, if necessary, should be by way of preliminary amendment submitted prior to the first Office action to avoid delays in the prosecution of the application.

Replies should be mailed to: Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

*A copy of this notice **MUST** be returned with the reply.*

Muhammed Hussein
Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE



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APPLICATION NUMBER	FILING OR 371 (e) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
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CONFIRMATION NO. 4919

29078
CHRISTIAN D. ABEL
ONSAGERS AS
POSTBOKS 6963 ST. OLAVS PLASS
NORWAY, N-0130
NORWAY

FORMALITIES LETTER



OC000000013506653

Date Mailed: 08/11/2004

NOTICE OF INCOMPLETE REPLY (NONPROVISIONAL)

Filing Date Granted

The U.S. Patent and Trademark Office has received your reply on 04/05/2004 to the Notice to File Missing Parts (Notice) mailed 08/11/2004 and it has been entered into the nonprovisional application. The reply, however, does not include the following items required in the Notice.

The period of reply remains as set forth in the Notice. You may, however, obtain EXTENSIONS OF TIME under the provisions of 37 CFR 1.136 (a) accompanied by the appropriate fee (37 CFR 1.17(a)).

A complete reply must be timely filed to prevent ABANDONMENT of the above-identified application. Replies should be mailed to: Mail Stop Missing Parts, Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450.

The application is informal since it does not comply with the regulations for the reason(s) indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- A substitute specification in compliance with 37 CFR 1.52, 1.121(b)(3), and 1.125, is required. The specification, claims, or abstract page(s) submitted is not acceptable and cannot be scanned or properly stored because:
 - Papers must be legibly written either by a typewriter or mechanical printer in permanent ink or its equivalent in portrait orientation on flexible, strong, smooth, non-shiny, durable, and white paper. Application papers must be presented in a form having sufficient clarity and contrast between the paper and the writing thereon to permit the direct reproduction of readily legible copies in any number by use of photographic, electrostatic, photo-offset, and microfilming processes and electronic reproduction by use of digital imaging and optical character recognition. Pages 1, 5, 7-9 & 11 are not in compliance with 37 CFR 1.52(a).
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III. The failure to file a petition (and petition fee) under the above options (I) or (II) within **TWO MONTHS** of the date of this Notice (37 CFR 1.181(f)) will be treated as a constructive acceptance by the applicant of the application as deposited in the USPTO. **THIS TWO MONTH PERIOD IS NOT EXTENDABLE UNDER 37 CFR 1.136(a) or (b).** In the absence of a timely filed petition in reply to this Notice, the application will maintain a filing date as of the date of deposit of the application papers in the USPTO, and original application papers (i.e., the original disclosure of the invention) will include only those application papers present in the USPTO on the date of deposit.

In the event that applicant elects not to take action pursuant to options (I) or (II) above (thereby constructively electing option (III)), amendment of the specification to renumber the pages consecutively and cancel incomplete sentences caused by any omitted page(s), and/or amendment of the specification to cancel all references to any omitted drawing(s), relabel the drawing figures to be numbered consecutively (if necessary), and correct the references in the specification to the drawing figures to correspond with any relabeled drawing figures, is required. A copy of the drawing figures showing the proposed changes in red ink should accompany with any drawing changes. Such amendment and/or correction to the drawing figures, if necessary, should be by way of preliminary amendment submitted prior to the first Office action to avoid delays in the prosecution of the application.

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*A copy of this notice **MUST** be returned with the reply.*

Michaela Heber
Customer Service Center
Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

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